TOTAL PHOSPHORUS OR ORTHOPHOSPHATE BY AUTOMATED ASCORBIC ACID REDUCTION METHOD SM 4500-P F 1999 (2011)

ADDITIONAL QC REQUIREMENTS FOR THIS METHOD: Certified or Accredited laboratories using this method are assessed to applicable requirements of SM 1020 and SM 4020. Also refer to appropriate checklist for TKN sample digestion.

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
1) Were Non-Potable Water samples analyzed for either Total Phosphorus or Orthophosphate collected in Polyethylene, Fluoropolymer, or Glass containers?	40 CFR 136 Table Ii				
2) Were Non-Potable Water samples analyzed for Total Phosphorus or Orthophosphate cooled to ≤ 6°C?	40 CFR 136 Table Ii				
3) Were Non-Potable Water samples analyzed for Orthophosphate filtered within 15 minutes of collection and analyzed within 48 hours?	40 CFR 136 Table Ii				
4) Were Non-Potable Water samples analyzed for Total Phosphorus preserved to pH < 2 with H2SO4?	40 CFR 136 Table Ii				
5) Were Non-Potable Water samples analyzed for Total Phosphorus analyzed within 28 days?	40 CFR 136 Table Ii				
6) When Total Phosphorus was analyzed, was the appropriate digestion step used?	4500-P A.3.a				
7) Was Potassium Antimonyl Tartrate Solution prepared by dissolving 0.3 g $K(SbO)C_2H_40_6 \bullet 1/2H_2O$ in 50 mL distilled water?	4500-P F.3.a				
8) Was Potassium Antimonyl Tartrate Solution stored at 4°C in a dark, glass-stoppered bottle?	4500-P F.3.a				
9) Was Ammonium Molybdate Solution prepared by dissolving 4 g (NH3)6Mo7024●4H2O in 100 mL distilled water?	4500-P F.3.b				
10) Was Ammonium Molybdate Solution stored at 4°C in a plastic bottle?	4500-P F.3.b				
Notes/Comments:					

TOTAL PHOSPHORUS OR ORTHOPHOSPHATE BY AUTOMATED ASCORBIC ACID REDUCTION METHOD SM 4500-P F 1999 (2011)

ADDITIONAL QC REQUIREMENTS FOR THIS METHOD: Certified or Accredited laboratories using this method are assessed to applicable requirements of SM 1020 and SM 4020. Also refer to appropriate checklist for TKN sample digestion.

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
11) Is the combined reagent made fresh using the following proportions for 100 mL of the combined reagent? 50 mL 5N H_2SO_4, 5 mL potassium antimonyl tartrate solution, 15 mL ammonium molybdate solution, and 30 mL ascorbic acid solution in the order listed? (4500-P E.3.e)	4500-P F.3.d				
12) Was the combined reagent used for no longer than 4 hours (4500-P E.3.e)?	4500-P F 3.d				
13) Was Ascorbic Acid Solution prepared according to SM 4500-P E.3.d?	4500-P F.3.c				
14) Is ascorbic acid solution kept for no longer than about 1 week and stored at 4°C? (4500-P E.3.d)	4500-P F.3.c				
Notes/Comments:					